Cyclohexene, decafluoro-

Other names: Decafluorocyclohexene
Inchi: InChI=1S/C6F10/c7-1-2(8)4(11,12)6(15,16)5(13,14)3(1,9)10
InchiKey: ZFFLXJVVPHACEG-UHFFFAOYSA-N
Formula: C6F10
SMILES: FC1=C(F)C(F)(F)C(F)(F)C(F)(F)C1(F)F
Mol. weight [g/mol]: 262.05
CAS: 355-75-9

Physical Properties

Property code	Value	Unit	Source
gf	-1958.40	kJ/mol	Joback Method
hf	-2039.17	kJ/mol	Joback Method
hfus	12.40	kJ/mol	Joback Method
hvap	17.29	kJ/mol	Joback Method
log10ws	-4.04		Crippen Method
logp	3.692		Crippen Method
mcvol	97.940	ml/mol	McGowan Method
pc	2624.46	kPa	Joback Method
tb	345.00	K	Joback Method
tc	485.60	K	Joback Method
tf	279.34	K	Joback Method
vc	0.460	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	210.06	J/mol×K	345.00	Joback Method
cpg	221.62	J/mol×K	368.43	Joback Method
cpg	232.02	J/mol×K	391.87	Joback Method
cpg	241.36	J/mol×K	415.30	Joback Method
cpg	249.72	J/mol×K	438.73	Joback Method
cpg	257.21	J/mol×K	462.16	Joback Method
cpg	263.91	J/mol×K	485.60	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C355759&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume